

Abstract

Polyalkylene carbonate resins are stabilized against thermal and hydrolytic decomposition by the addition of a cyclic amine eliminating the need for complex chemical or other purifying techniques. Cyclic amines such as imidazole and substituted imidazoles (specifically 2-ethyl 4-methyl imidazole) were found to be effective at 5-30%, preferably 10-30%. Processes for producing stable flux containing coatings for the aluminum brazing industry are detailed. The modified polyalkylene carbonate resins have better adhesive properties than the unmodified resins while maintaining their low ash, clean burning characteristics.